Fig. 1

NON-REAL-TIME PROCESSING MEANS

7

COMMON STORAGE MEANS

ROUTE SELECTING MEANS

REAL-TIME PROCESSING MEANS

REAL-TIME PROCESSING MEANS

REAL-TIME PROCESSING MEANS

SELECTION MEANS

REAL-TIME PROCESSING MEANS

SELECTION MEANS

TO SELECT TO BE CONTROLLED

Fig.2

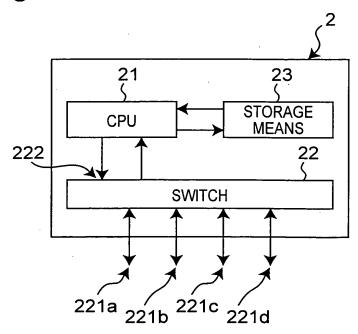


Fig. 3

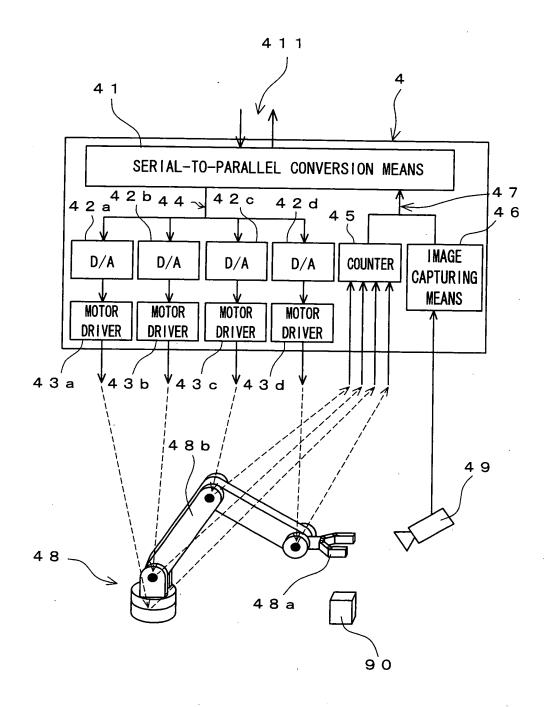


Fig.4

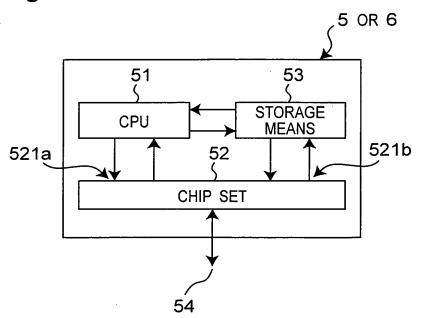


Fig.5

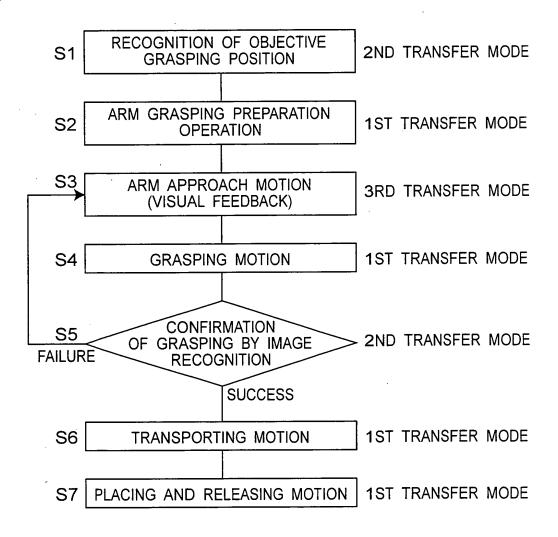


Fig.6

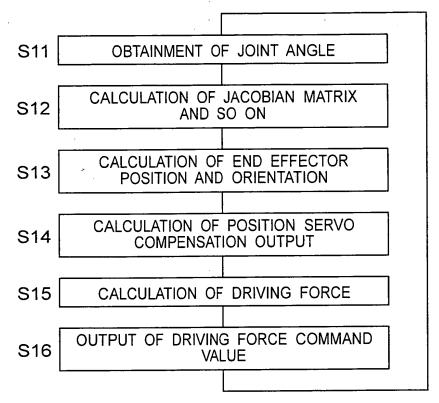
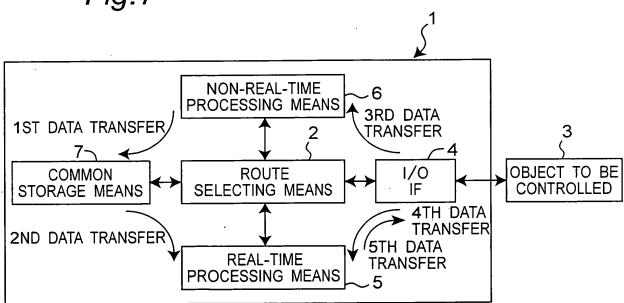
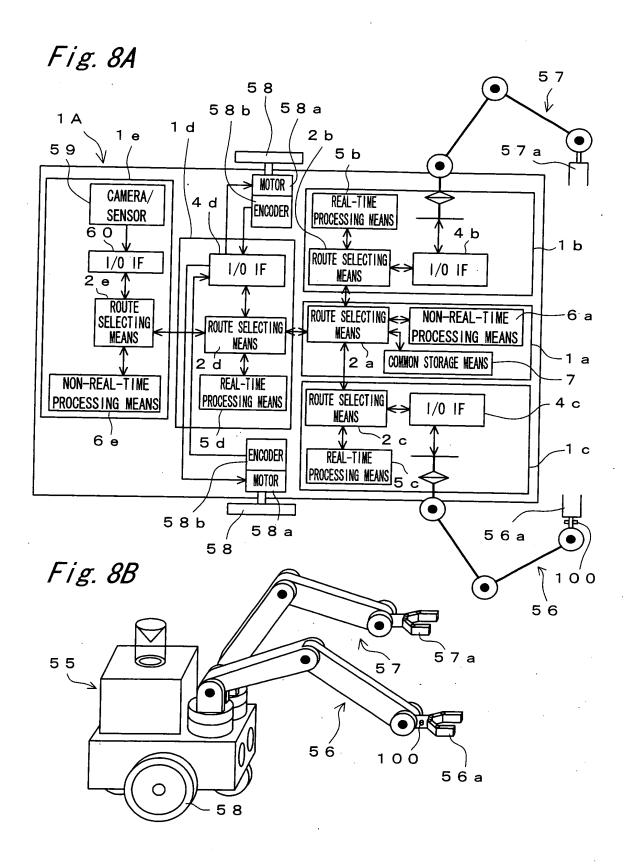
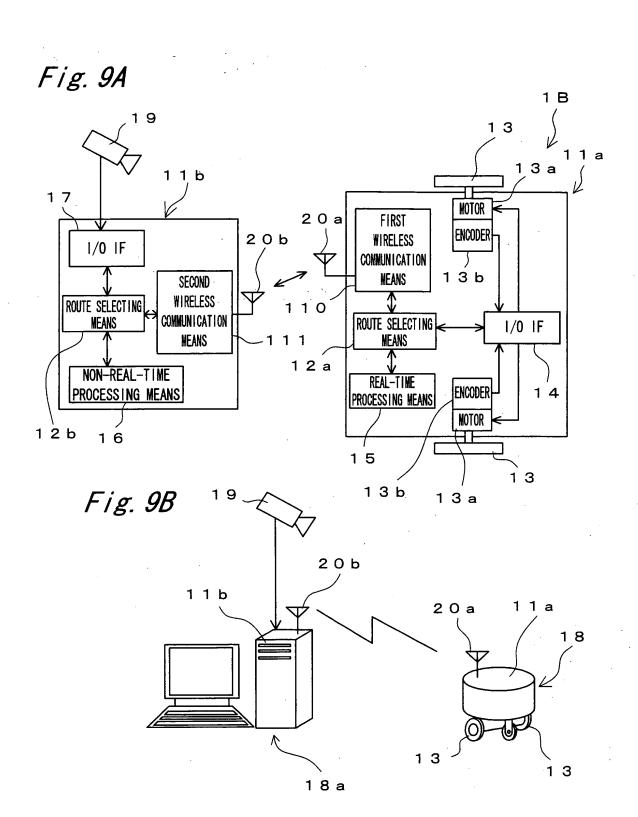


Fig.7



1







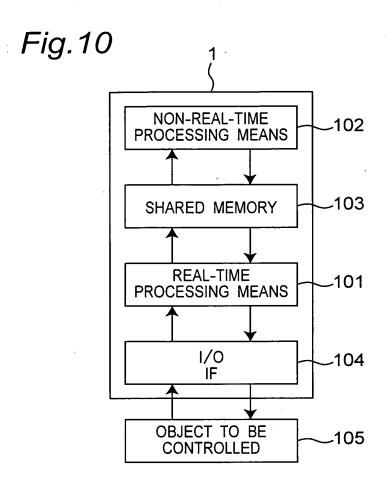
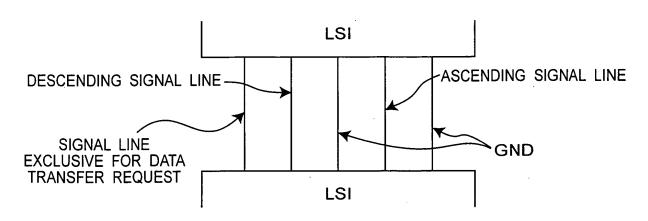


Fig.11.



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Fig.12A

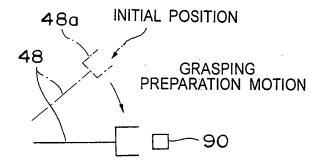
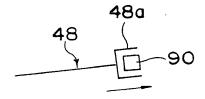


Fig.12B



APPROACH MOTION

Fig.12C

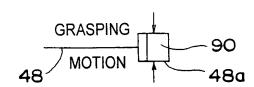


Fig. 13A

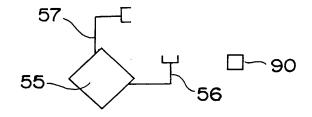


Fig. 13B

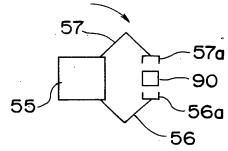


Fig.13C

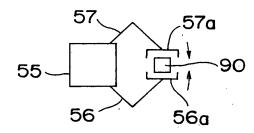


Fig.13D

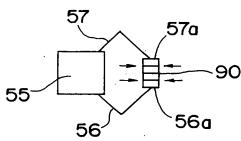


Fig.14

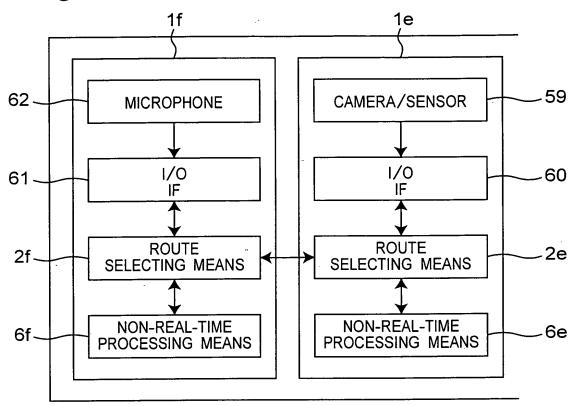
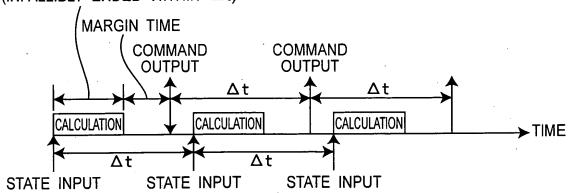


Fig.15

CALCULATION FOR CONTROL (INFALLIBLY ENDED WITHIN Δt)



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0

JOINT ANGLE DATA

4TH DATA TRANSFER | 1/0 IF→REAL-TIME PROCESSING MEANS

5TH DATA TRANSFER|REAL-TIME PROCESSING MEANS→I/O IF

0

DRIVING FORCE VALUE COMMAND DATA

1ST 2ND 3RD MODE MODE PREFERENTIAL DATA 0 0 DESIRED TRAJECTORY DATA DESIRED TRAJECTORY DATA IMAGE DATA DATA TYPE 1ST DATA TRANSFER NON-REAL-TIME PROCESSING MEANS→COMMON STORAGE MEANS TRANSFER DESTINATION 2ND DATA TRANSFER|COMMON STORAGE MEANS→REAL-TIME PROCESSING MEANS 3RD DATA TRANSFER|1/O IF→NON-REAL-TIME PROCESSING MEANS TRANSFER ORIGINATOR

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	Fig.17		OCCUPATION RATIO (%)				
			1ST DATA TRANSFER	DATA TRANSFER	DATA TRANSFER	4TH DATA TRANSFER	5TH DATA TRANSFER
				2ND DAT	3RD DAT	4TH DAT	5TH DAT
		TRANSFER ORIGINATOR	NON-REAL-TIME PROCESSING MEANS→COMMON STORAGE MEANS	STORAGE MEANS→REAL-TIME PROCESSING MEANS	PROCESSING MEANS	PROCESSING MEANS	\S→I/O IF
		TRANSFER DESTINATION	NON-REAL-TIME PROCESSING	COMMON STORAGE MEANS-F	I/O IF→NON-REAL-TIME	I/O IF→REAL-TIME PROCESSIN	REAL-TIME PROCESSING MEANS1/0 IF
PATH	NON-REAL-TIME PROCESSING MEANS→ROUTE SELECTING MEANS		Α		100 -A		
	REAL-TIME PROCESSING MEANS→ROUTE SELECTING MEANS			100 -B-C		В	С
TRANSFER	I/O IF→ROUTE SELECTING MEANS				100 -D-E	D	E
TR.	COMMON STORAGE MEANS→ROUTE SELECTING MEANS		F	G			